

The following listing of claims will replace all prior versions, and listings, of claims in the application:

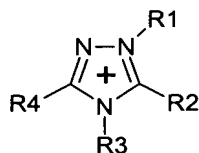
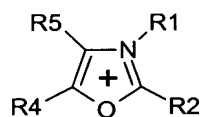
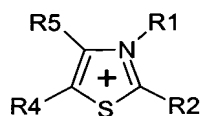
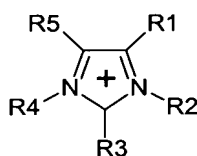
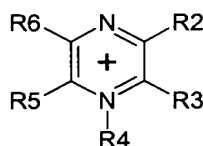
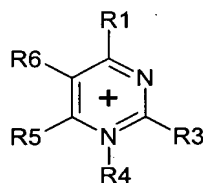
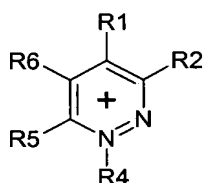
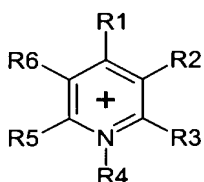
**Listing of Claims:**

1. (Original): An ionic liquid of the formula



wherein:

$K^+$  is a cation selected from



where

$R^1$  to  $R^6$  are identical or different and are each individually -H,

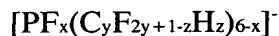
- halogen,

- an alkyl radical ( $C_1$  to  $C_8$ ), which is unsubstituted or partially or fully substituted by F, Cl,  $N(C_nF_{(2n+1-x)}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ , or  $(C_nF_{(2n+1-x)}H_x)$ , where  $1 < n < 6$  and  $0 < x \leq 13$ ,

*B'ent.* - a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl,  $N(C_nF_{(2n+1+x)}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ ,  $SO_2(C_nF_{(2n+1-x)}H_x)$  or  $C_nF_{(2n+1-x)}H_x$  where  $1 < n < 6$  and  $0 < x \leq 13$ , or

- one or more pairs of adjacent  $R^1$  to  $R^6$  can also be an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen,  $N(C_nF_{(2n+1-x)}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ ,  $SO_2(C_nF_{(2n+1-x)}H_x)$  or  $C_nF_{(2n+1-x)}H_x$  where  $1 < n < 6$  and  $0 \leq x \leq 13$ ; and

$A^-$  is an anion of the following formula



where  $1 \leq x < 6$

$1 \leq y \leq 8$  and

$0 \leq z \leq 2y + 1$ .

2. (Original): A compound according to claim 1, wherein at least one  $R^1$  to  $R^6$  group is a halogen.

3. (Original): A compound according to claim 1, wherein at least one  $R^1$  to  $R^6$  group is an alkyl radical ( $C_1$  to  $C_8$ ), which is unsubstituted or partially or fully substituted by F, Cl,  $N(C_nF_{(2n+1-x)}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ , or  $(C_nF_{(2n+1-x)}H_x)$ , where  $1 < n < 6$  and  $0 < x \leq 13$ .

4. (Original): A compound according to claim 1, wherein at least one  $R^1$  to  $R^6$  group is a phenyl radical which is unsubstituted or partially or fully substituted by F, Cl,  $N(C_nF_{(2n+1+x)}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ ,  $SO_2(C_nF_{(2n+1-x)}H_x)$  or  $C_nF_{(2n+1-x)}H_x$  where  $1 < n < 6$  and

$0 < x \leq 13$ .

5. (Original): A compound according to claim 1, wherein at least one adjacent pair of  $R^1$  to  $R^6$  is an alkylene or alkenylene radical having up to 8 C atoms and which is unsubstituted or partially or fully unsubstituted by halogen,  $N(C_nF_{(2n+1)x}H_x)_2$ ,  $O(C_nF_{(2n+1-x)}H_x)$ ,  $SO_2(C_nF_{(2n+1-x)}H_x)$  or  $C_nF_{(2n+1-x)}H_x$  where  $1 < n < 6$  and  $0 \leq x \leq 13$ .

B'cont.  
6. (Original): A compound according to claim 1, wherein said compound has at least one perfluorinated alkyl group.

7. (Original): A compound according to claim 1, wherein said compound contains at least one  $C_yF_{2y+1-z}H_z$  group selected from  $C_2F_5$  and  $C_4F_9$ .

8. (Original): An electrochemical cell comprising a cathode, an anode, a separator, and an ionic liquid of claim 1.

9. (Original): A capacitor comprising of at least a pair of electrodes, a separator, and an ionic liquid of claim 1.

10. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and an aprotic solvent.

11. (Original): An electrolyte composition comprising an ionic liquid of claim 1 and a conductive salt.

12. (Previously Added): A compound according to claim 1, wherein said compound is:

1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate;  
1,2-dimethyl-3-propylimidazolium tris(pentafluoroethyl)trifluorophosphate; or  
1-ethyl-3-methylimidazolium tris(nonafluorobutyl)trifluorophosphate.

13. (Previously Added): A compound according to claim 12, wherein said compound is 1-ethyl-3-methylimidazolium tris(pentafluoroethyl)trifluorophosphate.

*B' cont.*  
14. (New): A compound according to claim 1, wherein  $R^1$  to  $R^6$  are each H or a  $C_1$  to  $C_8$  alkyl, which is unsubstituted or partially or fully substituted by F, Cl,  $N(C_nF_{(2n+1-x)},H_x)_2$ ,  $O(C_nF_{(2n+1-x)},H_x)$ , or  $(C_nF_{(2n+1-x)},H_x)$ , where  $1 < n < 6$  and  $0 < x \leq 13$ .

15. (New): A compound according to claim 1, wherein  $R^1$  to  $R^6$  are each H or a  $C_1$  to  $C_8$  alkyl.

16. (New): An electrolyte composition according to claim 11, wherein said conductive salt is  $LiPF_6$ ,  $LiBF_4$ ,  $LiClO_4$ ,  $LiAsF_6$ ,  $LiCF_3SO_3$ ,  $LiN(CF_3SO_2)_2$ ,  $LiC(CF_3SO_2)_3$  or a mixture thereof.

17. (New): An electrolyte composition according to claim 11, wherein said composition contains 1-99 wt% of said ionic liquid.

18. (New): An electrolyte composition according to claim 11, wherein said composition further contains an organic isocyanate.

19. (New): A compound according to claim 1, wherein  $2 \leq y \leq 8$ .

20. (New): A compound according to claim 1, wherein  $1 \leq z \leq 2y + 1$ .

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